

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,809	11/03/2003	Mitsuru Arai	03665/LH	4459	
1933 FRISHAUF, H	7590 04/20/2007 OLTZ, GOODMAN & O	CHICK, PC	EXAM	INER	
220 Fifth Aven	•		WEINSTEIN,	LEONARD J	
16TH Floor NEW YORK, NY 10001-7708  ART UNIT PAPE			PAPER NUMBER		
,			3746		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MO	ONTHS	04/20/2007	PAP	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	10/600 900		ARAI ET AL.	
Office Action Summary	10/699,809			<u> </u>
omoo Addon Gammary	Examiner		Art Unit	
The MAILING DATE of this communication	Leonard J. Wei		3746	
The MAILING DATE of this communication Period for Reply	n appears on the cov	er sneet with the co	orrespondence address -	
A SHORTENED STATUTORY PERIOD FOR RIWHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communicatio  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS C FR 1.136(a). In no event, hor n. eriod will apply and will expir statute, cause the application	OMMUNICATION wever, may a reply be time  SIX (6) MONTHS from to become ABANDONED	l. ely filed he mailing date of this communica ) (35 U.S.C. § 133).	
Status		•		
1) Responsive to communication(s) filed on	13 February 200 <u>7</u> .			
,	This action is non-fi	nal.		
3) Since this application is in condition for all	owance except for fo	ormal matters, pros	secution as to the merits	s is
closed in accordance with the practice und	der <i>Ex par</i> te Quayle,	1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims				
4) ☐ Claim(s) <u>5-9</u> is/are pending in the applicat 4a) Of the above claim(s) is/are with		ration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>5-9</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction a	nd/or election require	ement.		
Application Papers				
9)☐ The specification is objected to by the Exa	miner.			
10)⊠ The drawing(s) filed on <u>03 November 2003</u>		ed or b)⊡ objecte	ed to by the Examiner.	
Applicant may not request that any objection to	•	•	-	
Replacement drawing sheet(s) including the co	rrection is required if t	ne drawing(s) is obje	ected to. See 37 CFR 1.12	!1(d).
11)☐ The oath or declaration is objected to by th	e Examiner. Note th	e attached Office	Action or form PTO-152	<u>.</u>
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for for	eign priority under 3	5 U.S.C. § 119(a)-	(d) or (f).	
a)⊠ All b) Some * c) None of:	<u> </u>	3 (2)	., .,	
1.  Certified copies of the priority docum	nents have been rec	eived.		
<ul><li>2. Certified copies of the priority document</li></ul>	nents have been rec	eived in Applicatio	n No	
3. Copies of the certified copies of the	priority documents h	ave been received	d in this National Stage	
application from the International Bu	•			
* See the attached detailed Office action for a	ilist of the certified o	opies not received	1.	
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Attachment(s)				
1) Notice of References Cited (PTO-892)	4) 🗆	Interview Summary (I		
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>	5) 5) 🗀	Paper No(s)/Mail Dat Notice of Informal Pa		
Paper No(s)/Mail Date	6)	Other:		
S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office	ce Action Summary	Part	of Paper No./Mail Date 2007	0412
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## **DETAILED ACTION**

This office action is in response to the amendment of February 21, 2007. In making the below rejection and/or objections the examiner has considered and addressed each of the applicant's arguments.

## Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 5 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Rometsch et al. 4,077,745. Rometsch teaches all the limitations as substantially claimed for a volume control apparatus of a radial piston pump regulating a volume by positioning a cam ring of the radial piston pump including: a servo piston 15' which presses the cam ring so as to position the cam ring 13, an oil chamber 34 corresponding to the servo piston 15', wherein the servo piston 15' is driven in accordance with a driving pressure in the oil chamber 34 (col. 3 II. 53-57), and a control valve 40 which is built-in the servo piston 15', and which controls inflow and outflow of oil in the oil chamber 34, and which is positioned by applying a volume control pressure, via element 42, thereto, wherein the driving pressure in the oil chamber 34 is changed by changing the position of the control valve 40 by controlling the volume control pressure applied to the control valve 40 (col. 3 II. 60-65); and a control valve 40 is slidable with respect to the servo piston, element 35 of element 15'.
- 3. Claims 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuroyanagi et al. 4,652,215. Kuroyanagi teaches all the limitations as substantially claimed for a volume control apparatus of a radial piston pump regulating a volume by positioning a cam ring of the radial piston pump including: a servo piston, elements 30 and 60, which presses the cam ring 4

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so as to position the cam ring 4, an oil chamber 17 corresponding to the servo piston, elements 30 and 60, wherein the servo piston, elements 30 and 60, is driven in accordance with a driving pressure in the oil chamber 17 (col. 4 II. 31-33), and a control valve, elements 64 and 65, which is built-in the servo piston, elements 30 and 60, and which controls inflow and outflow of oil in the oil chamber 17, and which is positioned by applying a volume control pressure thereto (col. 4 II. 62-68), wherein the driving pressure in the oil chamber 17 is changed by changing the position of the control valve, elements 64 and 65, by controlling the volume control pressure applied to the control valve, elements 64 and 65; and a servo piston, elements 30 and 60, oil chamber 17 and control valve, elements 64 and 65, are positioned at a first side of the cam ring 4, and the volume control apparatus further comprises another set of a servo piston, elements 30 and 50, oil chamber 16, control valve, elements 54 and 55, positioned at a second side of the cam ring 4 which is opposite, as shown in figure 2, to the first side of the cam ring 4.

## Response to Arguments

- 4. Applicant's arguments filed 02/13/2007 have been fully considered but they are not persuasive.
- 5. With regards to the Kuroyanagi reference the applicant argues that the control valve of the present invention, clearly does not correspond to "a control valve which is built-in the servo piston, and which controls inflow and outflow of oil in the oil chamber, and which is positioned by applying a volume control pressure thereto" with regard to newly presented claim 5. The applicant also argues that Kuroyanagi does not disclose, teach or suggest "a control valve which is built-in the servo piston, and which controls inflow and outflow of oil in the oil chamber, and which is positioned by applying a control pressure thereto" with regards to newly presented claim 8.

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6. In response to applicants argument that the control chamber of Kuroyanagi does not correspond with a control valve that is built-in a servo piston, it is pointed out that the elements 30 and 60 constitute a servo piston wherein element 65, a control chamber, and a spring, element 64, are disposed within. These elements constitute a control valve permitting a flow of fluid from element 66 considered to be an oil chamber. It is noted by the examiner that the recitation of a "control valve" is not limiting and could be interpreted to be a spring, such as element 64, that permits a flow of fluid which is applied to a piston such as element 60. Therefore the control chamber of Kuroyangi in conjunction with the spring as discussed does correspond to a control valve with regards to new presented claims 5 and 8.

## Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. The prior art made of record is considered pertinent to applicant's disclosure are cited on form 892 herewith.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard J. Weinstein whose telephone number is 571-272-9961. The examiner can normally be reached on Monday - Thursday 7:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IJW

ANTHONY D. STASHICK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700